

Qty.	Description
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1	CM 1-3 A-S-G-V-AQQV B-A-A-N
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Product No.: [97568191](#)

Compact, reliable, horizontal, multistage, end-suction centrifugal pump with axial suction port and radial discharge port. Pump materials in contact with the liquid are in high-grade stainless steel. The mechanical shaft seal is a special designed, unbalanced O-ring seal. Pipework connection is via internal NPT pipe threads.

The pump is fitted with a 1-phase, foot-mounted, fan-cooled asynchronous motor.

Further product details

Pump and motor are integrated in a compact and user-friendly design. The pump is fitted to a low base plate, making it ideal for installation in systems where compactness is important.

The state-of-the-art design and materials of the shaft seal ensure high wear resistance, improved sticking and dry-running capabilities and long operating life.

Servicing the pump requires no special service tools. Service parts are in stock for quick delivery and are available as kits, single parts or bulk. Service videos are available on www.youtube.com.

Pump

A combination of a stop ring and a Nord-lock® washer secures a tight and reliable fixation of the impeller spacing pipes to the splined pump shaft. It is possible to remove and fit the hydraulic parts from the pump side. The inlet and outlet port are integrated in the pump sleeve. The inlet part, chambers and discharge part are hold together by four staybolts and a retaining flange.

The pump is fitted with an unbalanced O-ring seal with a rigid torque-transmission system. It has a fixed seal driver ensuring a reliable rotation of all parts. The dynamic secondary seal is an O-ring.

Seal faces:

- Rotating seal ring material: silicon carbide (SiC)
- Stationary seat material: silicon carbide (SiC)

This material pairing is used where higher corrosion resistance is required. The high hardness of this material pairing offers good resistance against abrasive particles.

Secondary seal material: FKM (fluorocarbon rubber)

FKM has excellent resistance to oils and chemicals. Above 90 °C, FKM should only be used in media without water.



The pump shaft is connected to the motor shaft through a left thread and tight fit. The shaft cannot be dismantled.

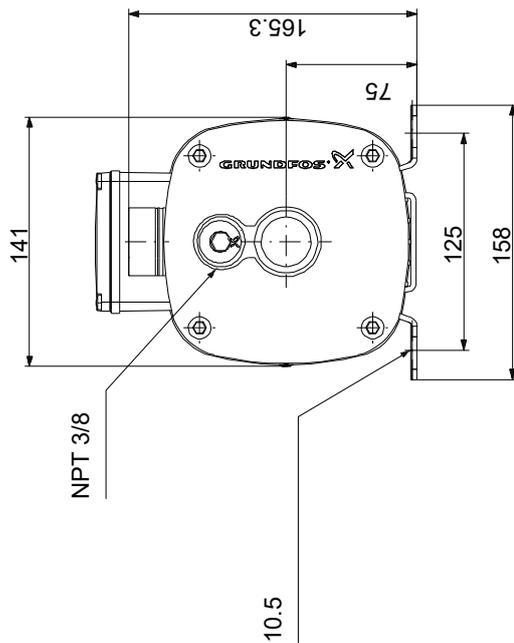
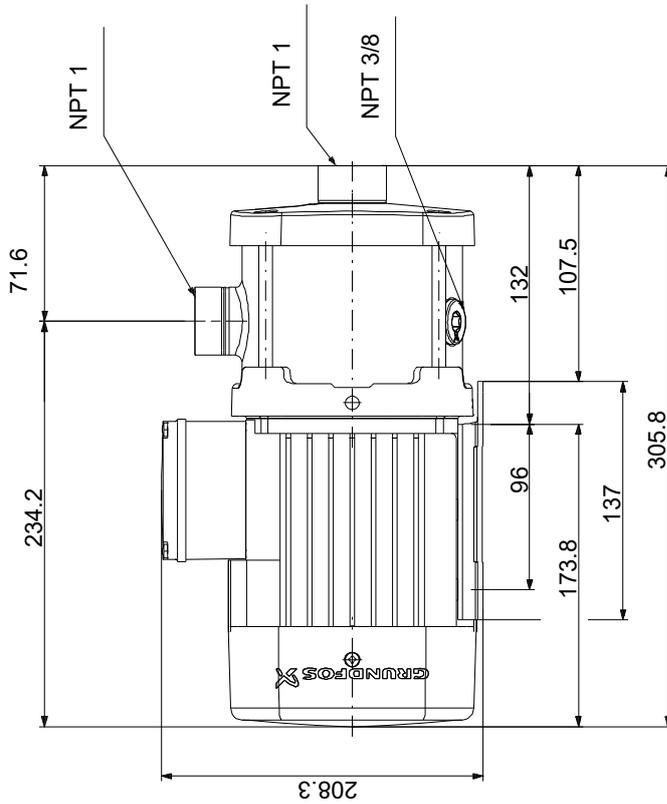
Motor

The motor is a totally enclosed, fan-cooled motor with principal dimensions to EN 50347. Electrical tolerances comply with EN 60034.

Technical data

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1	<p>Controls:</p> <p>Frequency converter: None</p> <p>Liquid:</p> <p>Pumped liquid: Water</p> <p>Liquid temperature range: -20 .. 90 °C</p> <p>Selected liquid temperature: 20 °C</p> <p>Density: 998.2 kg/m³</p> <p>Technical:</p> <p>Pump speed on which pump data are based: 3480 rpm</p> <p>Rated flow: 2.04 m³/h</p> <p>Rated head: 27.1 m</p> <p>Primary shaft seal: AQQV</p> <p>Code for shaft seal: AQQV</p> <p>Approvals: CULUS,EAC,CURUS</p> <p>Approvals for drinking water: WRAS,ACS,NSF61,UBA</p> <p>Curve tolerance: ISO9906:2012 3B</p> <p>Materials:</p> <p>Pump housing: Stainless steel EN 1.4401 AISI 316</p> <p>Impeller: Stainless steel EN 1.4401 AISI 316</p> <p>Installation:</p> <p>Range of ambient temperature: -20 .. 55 °C</p> <p>Maximum operating pressure: 16 bar</p> <p>Max pressure at stated temp: 16 bar / 90 °C</p> <p>Type of connection: NPT(F)</p> <p>Size of inlet connection: 1 inch</p> <p>Size of outlet connection: 1 inch</p> <p>Outlet position: 12</p> <p>Electrical data:</p> <p>Motor standard: NEMA</p> <p>Frame size: 71BA</p> <p>Rated power - P2: 0.6 kW</p> <p>Mains frequency: 60 Hz</p> <p>Suitable for 50/60 Hz (Yes/No): N</p> <p>Rated voltage: 1 x 115/230 V V</p> <p>Service factor: 1.00</p> <p>Rated current: 7.6/3.9 A</p> <p>Starting current: 260 %</p> <p>Rated speed: 3240 rpm</p> <p>Enclosure class (IEC 34-5): IP55</p> <p>Insulation class (IEC 85): F</p> <p>Built-in motor protection: NONE</p> <p>Cable included (Yes/No): N</p> <p>Others:</p> <p>Terminal box position: 12</p> <p>Minimum efficiency index, MEI ≥: 0.68</p> <p>Net weight: 12.4 kg</p> <p>Gross weight: 14.9 kg</p>

97568191 CM 1-3 A-S-G-V-AQQV B-A-A-N 60 Hz



Note! All units are in [mm] unless others are stated.
 Disclaimer: This simplified dimensional drawing does not show all details.